

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-24
Relating to Certification of New Motor Vehicle Engines

CUMMINS ENGINE COMPANY, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Cummins Engine Company, Inc. 1981 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
092A	855 (14.0)	Air Fuel Control (Turbo Charged)
093G	855 (14.0)	Air Fuel Control Mechanical Variable Timing (Turbocharged and Aftercooled)
093H	855 (14.0)	Air Fuel Control Mechanical Variable Timing (Turbocharged and Aftercooled)
172D	903 (14.8)	Air Fuel Control One Bank Valve (Turbocharged)

Engine Models and Codes as listed on attachments.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following certification emission values:

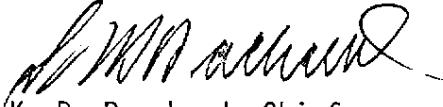
<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Hydrocarbons + Nitrogen Oxides gm/bhp-hr</u>
092A	0.7	2	5.4
093G	0.8	3	5.4
093H	0.4	2	5.8
172D	0.7	2	5.6

BE IT FURTHER RESOLVED: That Cummins Engine Company, Inc. has provided to the Executive Officer all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 24th day of November, 1980.


K. D. Drachand, Chief
Mobile Source Control Division

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Cummins Engine Co., Inc. Executive Order No. A-21-24 Page 1

<u>Engine Family</u>	<u>Model</u>	<u>Critical Parts List</u>
092A	NTCC-230, NTCC-240 ¹	0448, 0498 ¹

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HEAVY-DUTY DIESEL ENGINES**

Manufacturer Cummins Engine Company, Inc.

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Engine Family 092A

CID-Type

855-16

ECS (Special Features) Air Fuel Control (Turbocharged)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum ³ HP mm ³ /stroke	Label Ident.
NTCC-230 CPL-448	217795 217797 3004284 3008908	3023233 3025083 (OPT)	230 @ 1800	140	19° BTDC @.2032 in Piston Travel and .0635 in Injector push travel
NTCC-240 ¹ CPL-498			240 @ 1800	145	

Date of Issue - 11/24/80

Revision: 1 R/C 1-092A-81 added model

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<u>Engine Family</u>	<u>Model</u>	<u>Critical Parts List</u>
093G	NTCC-400	0454, 0457
	NTCC-350	0455, 0458
	NTCC-300	0456, 0459
	NHHTCC-290	0494
	NHHTCC-350	0495

Date of Issue:

Revisions:

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HEAVY-DUTY DIESEL ENGINES**

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Engine Family 093G CID-Type 855-I6

ECS (Special Features) Air Fuel Control, Mechanical Variable Timing (TCA)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP min ³ /stroke	Label Ident.
NTCC-400 CPL 0454 0457	217795 217797 3004284 3008908	3022269 3024638	400 @ 2100	213	19° BTDC @ .2032 in Piston Travel and .115 in Injector push tube travel
NTCC-350 CPL-0455 0458		3022268 3024637	350 @ 1800	203	19° BTDC @ .2032 in Piston Travel and .105 in Injector push tube travel
NTCC-300 CPL-0456 0459		3022268	300 @ 1800	176	19° BTDC @ .2032 in Piston Travel and .100 in Injector push tube travel
NHHTCC-290 CPL-0494		3022268	290 @ 1900	167	19° BTDC @ .2032 in piston travel and .105 in injector push tube travel
NHHTCC-350 CPL-0495		3024637	350 @ 1900	198	19° BTDC @ in piston travel and .110 in injector push tube travel

TCA - Turbocharged and after cooled
Date of Issue -

Revisions:

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Engine Family

Model

Critical Parts List

093H

NTC-475

0330

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HEAVY-DUTY DIESEL ENGINES

Manufacturer Cummins Engine Co., Inc.Page 6Engine Family 093HCID(Liter)-Type 855-I6ECS(Special Features) air-fuel control, mechanical variable timing (turbocharged aftercooled)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum ^{HP} mm ³ /stroke	Label Ident.
NTC-475	217795 217796 3004284 3008908 177761 201790 204160	Cummins 3024147	475 @ 2100	250	19° BTDC @ 0.2032 inch piston travel and @ 0.0085 injection push tube travel

Date of Issue -

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Engine Family

172D

Model

VFBC-903

Critical Parts List

0480

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HEAVY-DUTY DIESEL ENGINES**

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Engine Family 172D

CID-Type 903-V8

ECS (Special Features) Air Fuel Control, One Bank Valve (TC)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum ^{HP} mm ³ /stroke	Label Ident.
VTBC-903 CPL 0480	217794 LH 217796 LH 3008037 LH 3008909 LH 217795 RH 217797 RH 3004284 RH 3008908 RH	Cummins 3026074	275 @ 2100	110	21° BTDC @ .2032 inch and @ .111 inch injector push tube travel

Date of Issue -

TC - Turbocharged